

Claims

1. A hydraulic control arrangement for the load pressure independent control of a consumer, comprising a housing portion, preferably a valve disk in which a continuously variable distribution valve controlling the pressure medium flow to the consumer is accommodated to which distribution valve an individual pressure compensator is allocated, and comprising at least one stop valve which is arranged in the pressure medium flow path between the distribution valve and the consumer and can be released to permit a pressure medium flow from the corresponding consumer connection, and comprising an anti-cavitation valve via which pressure medium can be sucked from the reservoir in the case of a lacking supply of the consumer, characterized in that the stop valve is controlled by a pilot valve the axis of which extends perpendicularly to the axis of the distribution valve and of the stop valve arranged axially parallel thereto, wherein the pilot valve can be controlled to be opened mechanically by a slide valve of the distribution valve, and that the axis of the pressure-limiting and anti-cavitation valve extends perpendicularly to the axes of the distribution valve and the pilot valve.

2. A hydraulic control arrangement according to claim 1, wherein the control arrangement is accommodated in a valve disk and the distribution valve, two stop valves and pilot valves are arranged in the disk plane and the pressure-limiting and anti-cavitation valves are arranged perpendicularly to the disk plane.

3. A control arrangement according to claim 1 or 2, wherein the axis of the individual pressure compensator is arranged perpendicularly to the axis of the distribution valve in the disk plane.

4. A control arrangement according to claim 3, wherein the axis of the individual pressure compensator is arranged centrally between the axes of the two pilot valves.

5. A control arrangement according to any one of the preceding claims, wherein the axis of the pilot valves intersects the axis of the corresponding stop valve in the area of a spring chamber.

6. A control arrangement according to any one of the preceding claims, wherein the axis of the pressure-limiting and anti-cavitation valves is located in the area between a common axis of the stop valves and the axis of the distribution valve.

7. A control arrangement according to any one of the preceding claims, wherein the slide valve includes a control surface via which a tappet extending perpendicularly to the axis of the distribution valve is axially movable for opening the pilot valve.

8. A control arrangement according to claim 7, wherein the tappet is guided in the valve disk.

9. A control arrangement according to any one of the claims 2 to 8, wherein each of the stop valve and the pilot valve are accommodated in intersecting bores ending at the side faces of the valve disk.

10. A control arrangement according to any one of the preceding claims, wherein at least in the area of the pressure-limiting and anti-cavitation valves working passages leading to the consumer connections are located

in a plane of the valve disk which is arranged offset with respect to a plane including reservoir passages.